

FIG. 1

Cow	: SQAE	FDKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Man	: SQAE	FEKA	EEV	PH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Pig	: SQAE	FEKA	EEV	KN	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Dog	: SQAE	FDKA	EEV	WH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Rat	: SQAE	FDKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Mouse	: SQAE	FDKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Turtle	: SQAE	FDKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Duck	: AEA	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Chicken	: SEAA	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Fruitfly	: VSEQ	ENAA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Hawkmoth	: LQEQ	DOAA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Yeast (1)	: VSQ	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Yeast (2)	: VSQ	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
C.elegans (1)	: MTL	SDAA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Cotton	: LKEE	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Rape seed	: LKEE	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Arabidopsis	: LKEE	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Castor bean	: LKEE	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Lily	: LKEE	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Frog (brain)	: PQAE	DKAA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Duck (brain)	: HOAE	DEAA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Cow (testis)	: SQVE	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Rat (testis)	: SQVE	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Mouse (testis)	: SQVE	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
C.elegans (2)	: AQAE	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
C.elegans (3)	: LQEK	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
C.elegans (4)	: LQEK	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Carp (m)	: SVEE	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Cow (m)	: HETR	FEKA	EEV	KH	KTK	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80
Arabidopsis (m)	: SAATA	FVAA	AA	SDR	ESQV	---	19	25	28	32	37	44	54	58	63	65	67	69	73	77	80

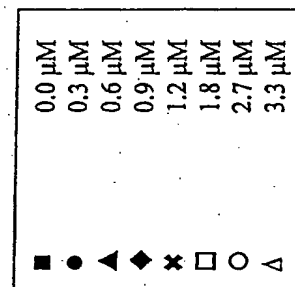
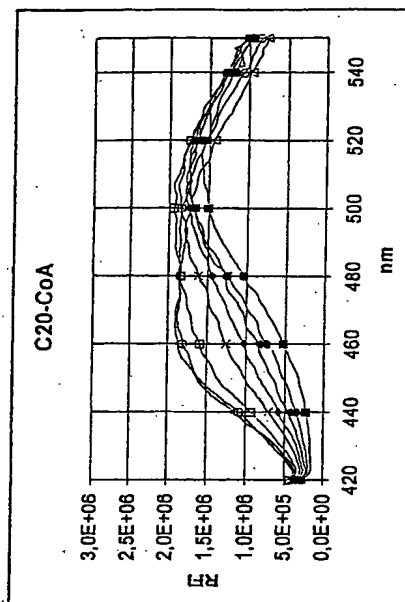
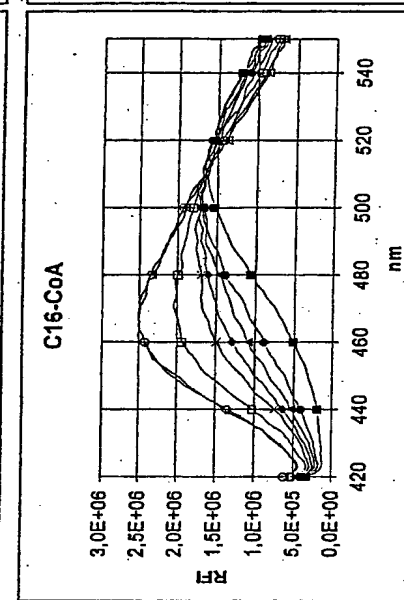
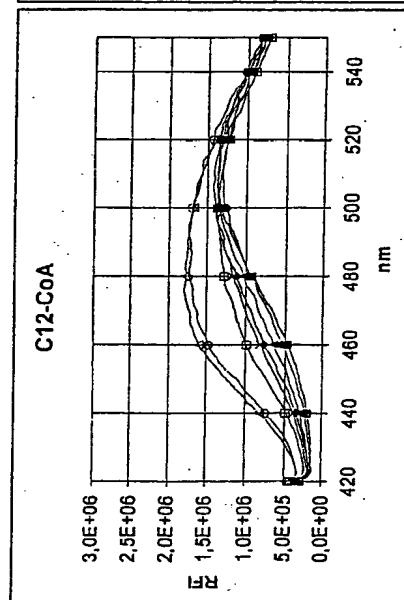
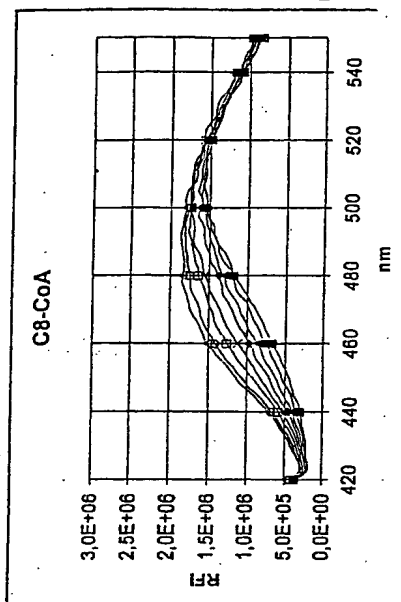
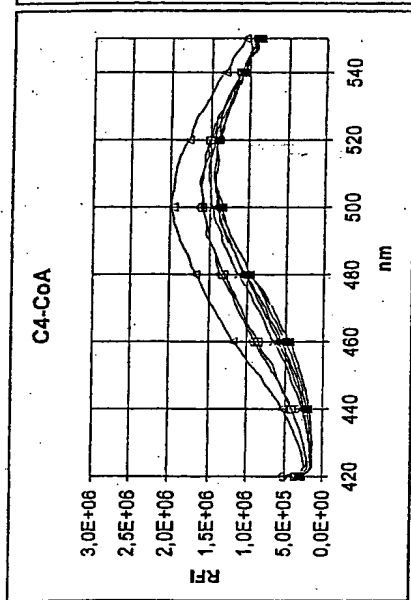
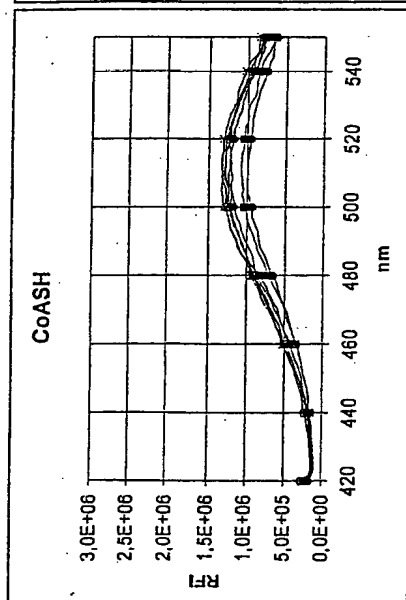


FIG. 3

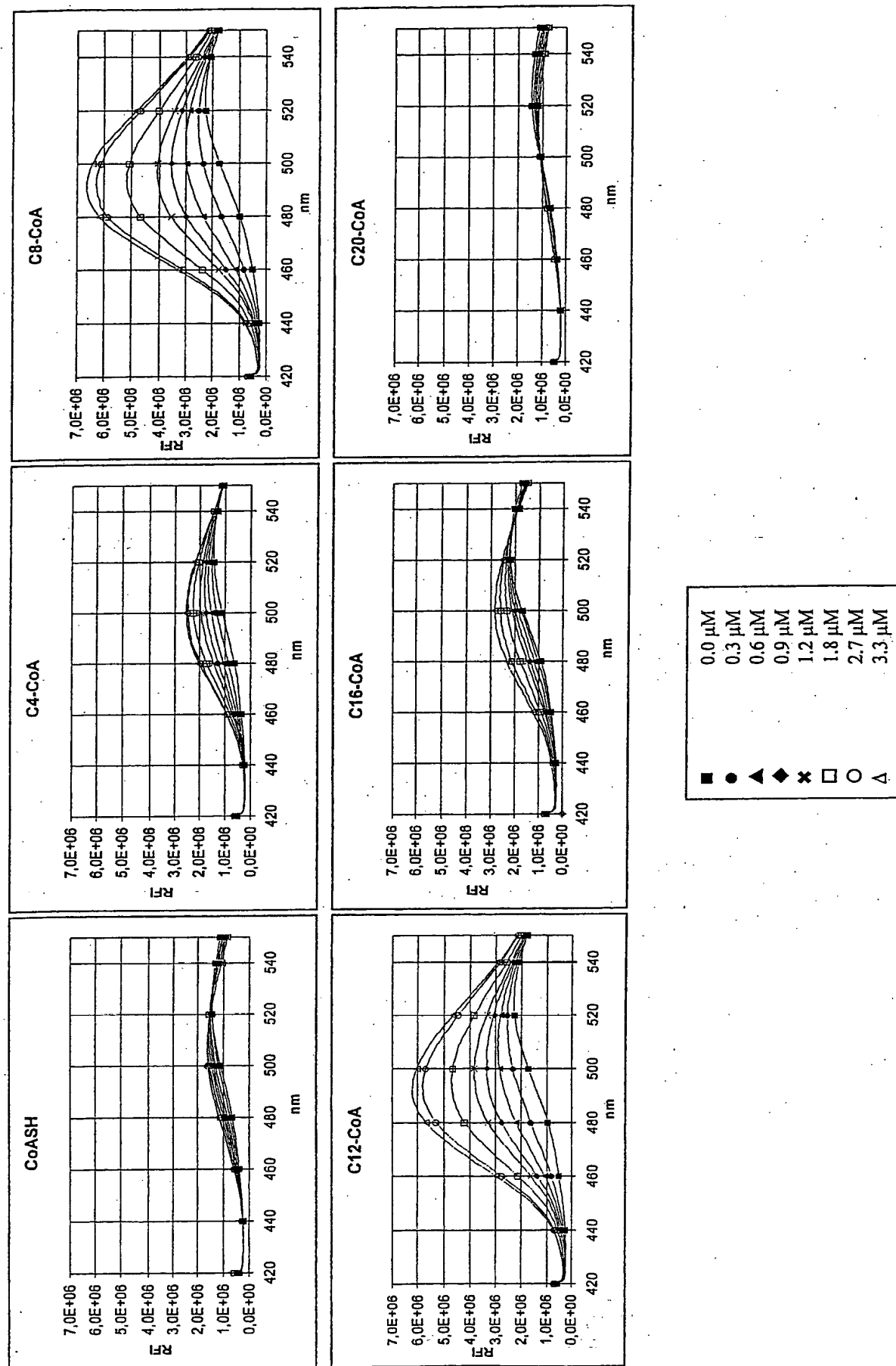
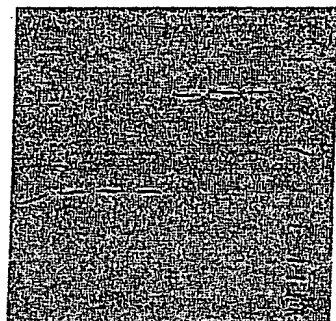


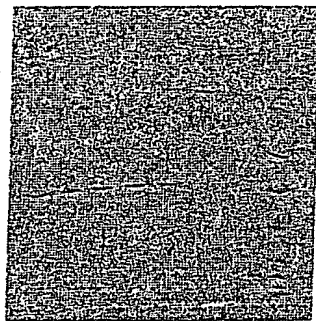
Figure 4:

(a): r-bov ACBP



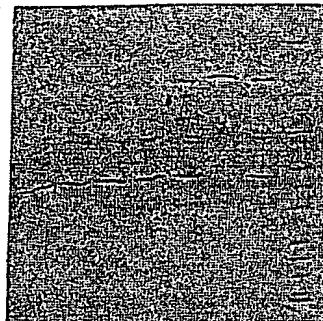
1 2 3 4 5 6 7 8

(b): A53C-badan



1 2 3 4 5 6 7 8

(c): M24C-badan



1 2 3 4 5 6 7 8

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05967108:020602

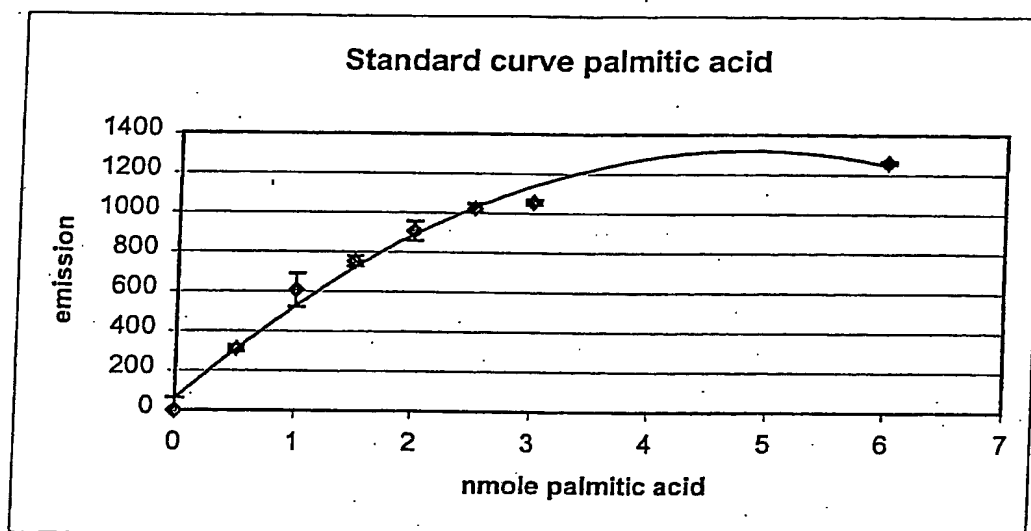


Fig. 5a.

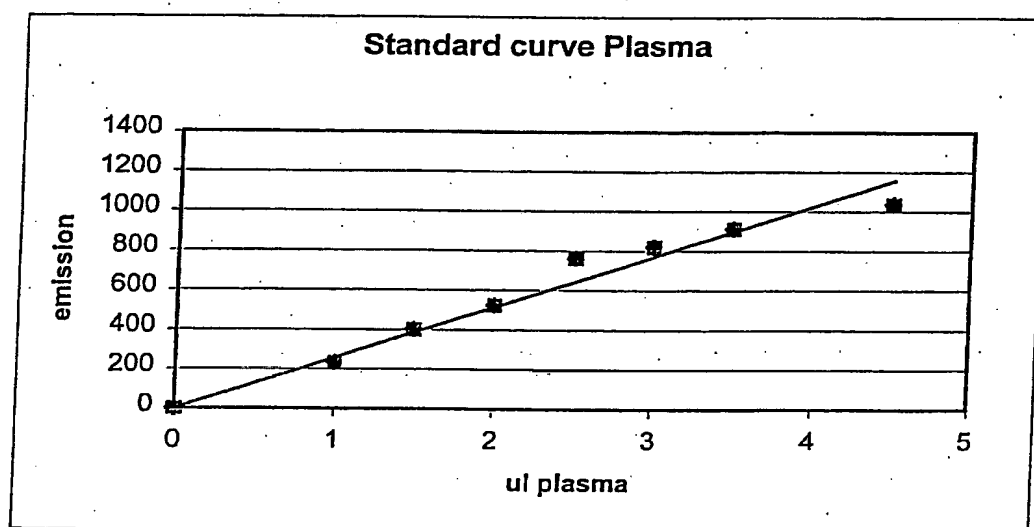
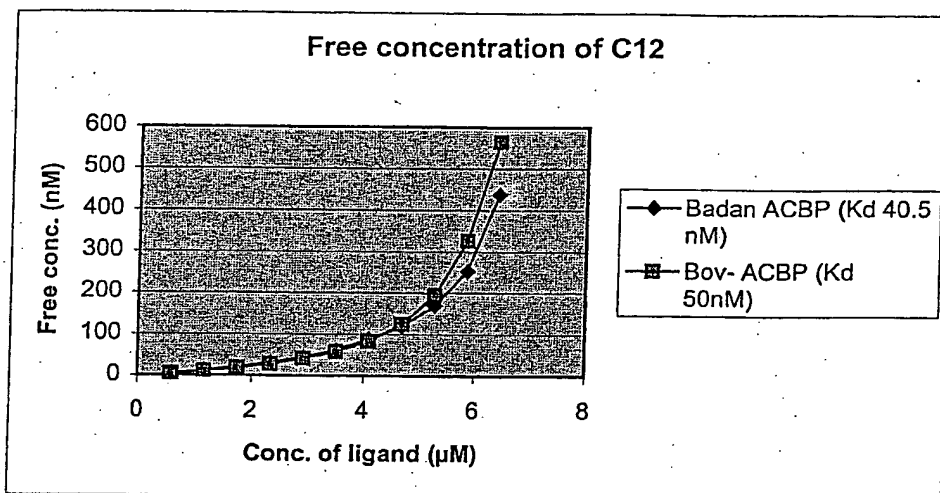


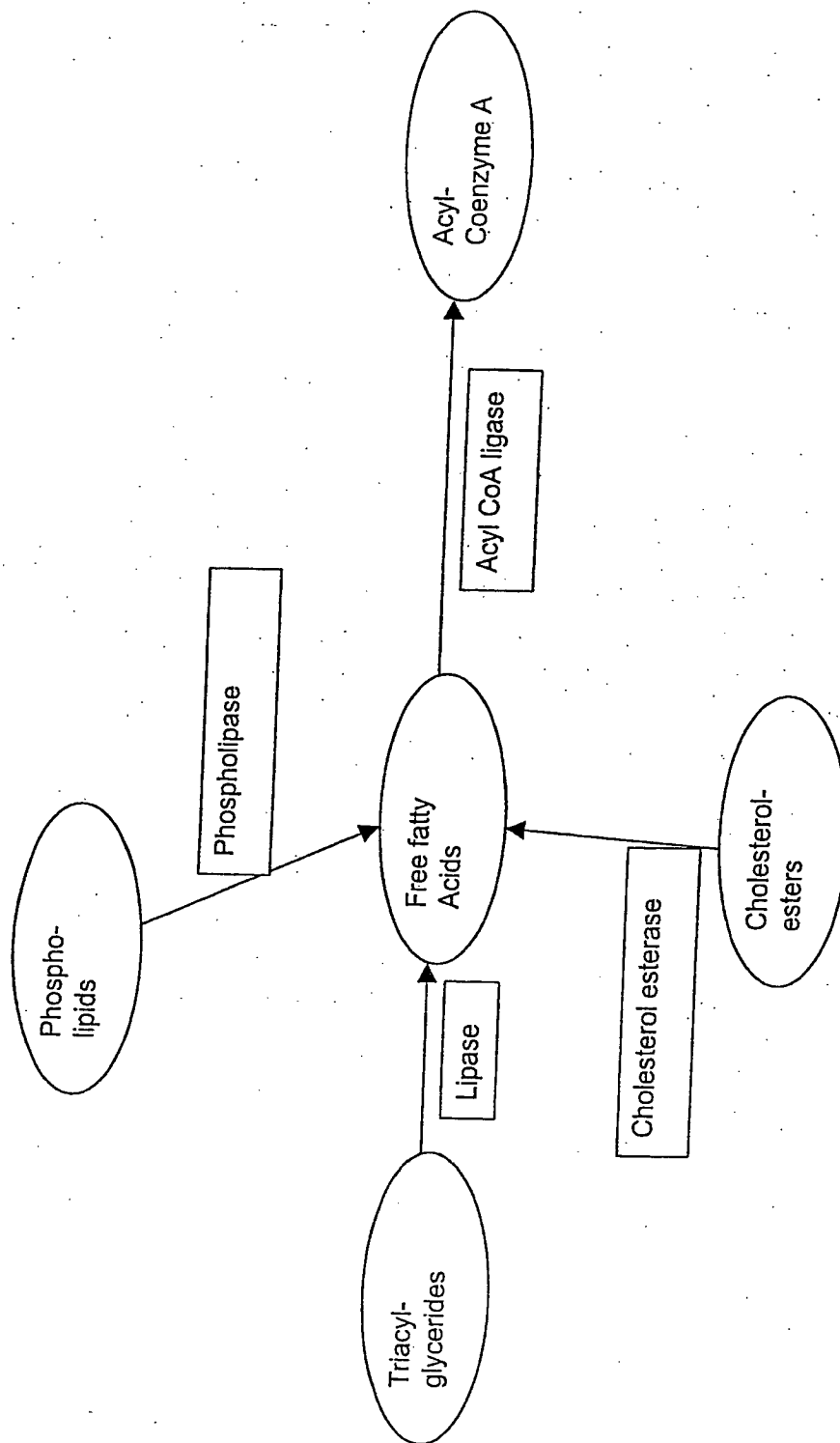
Fig. 5b.

Fig. 6



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FIG. 7



200000-0014550

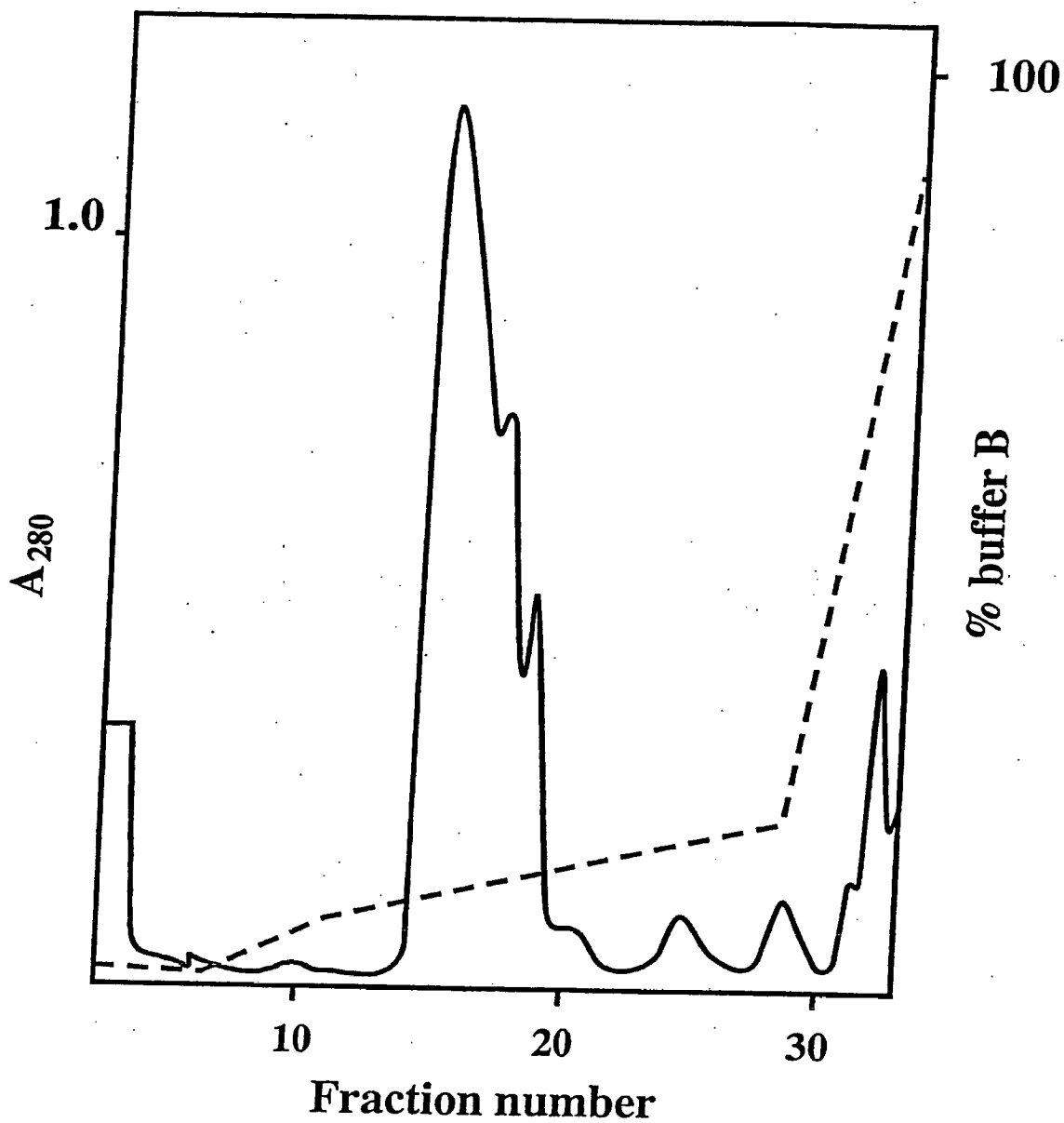


Fig. 8

200020-20175550

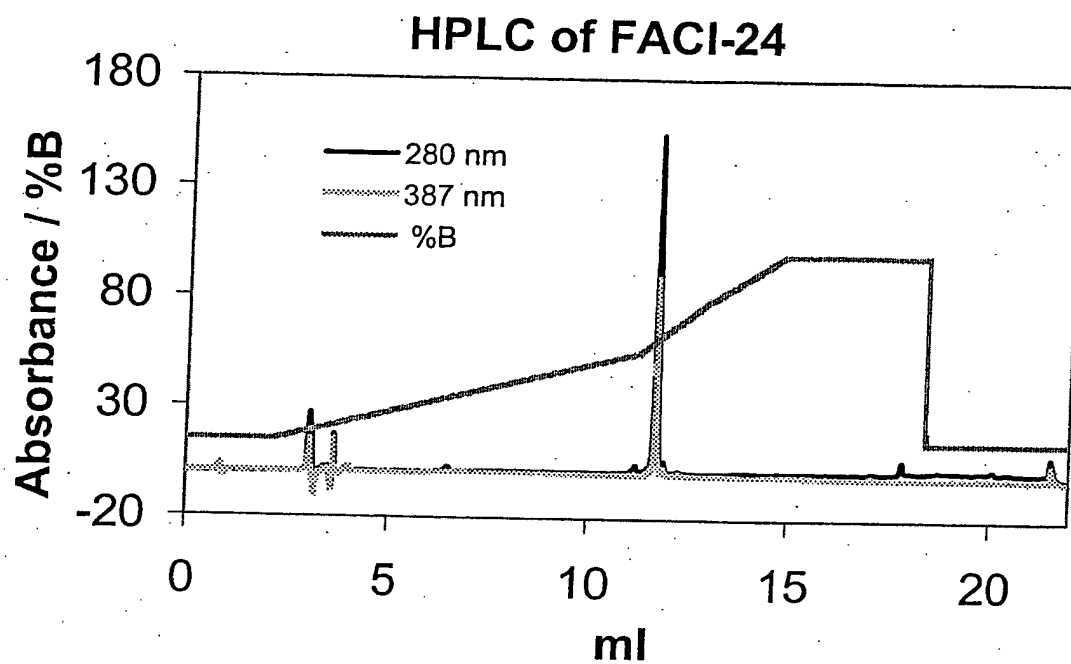


Fig. 9

FACI-24 in response to C16-CoA

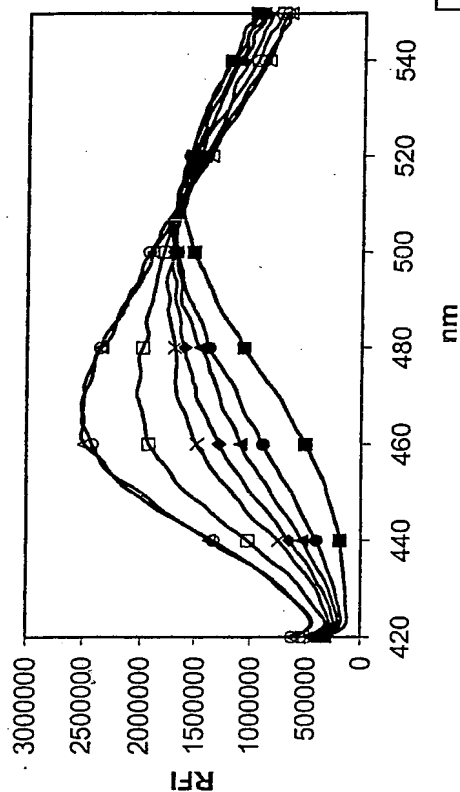


Fig 10 A

FACI-53 in response to C12-CoA

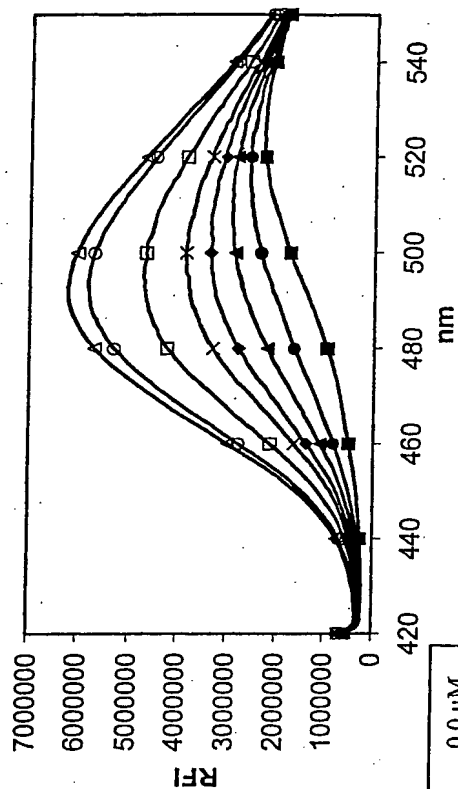
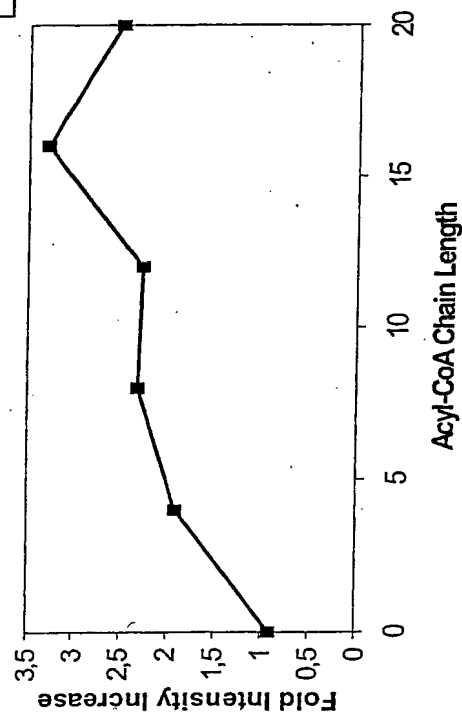


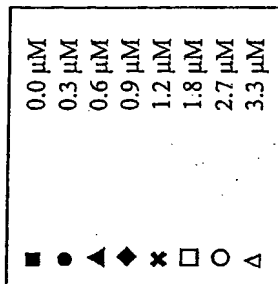
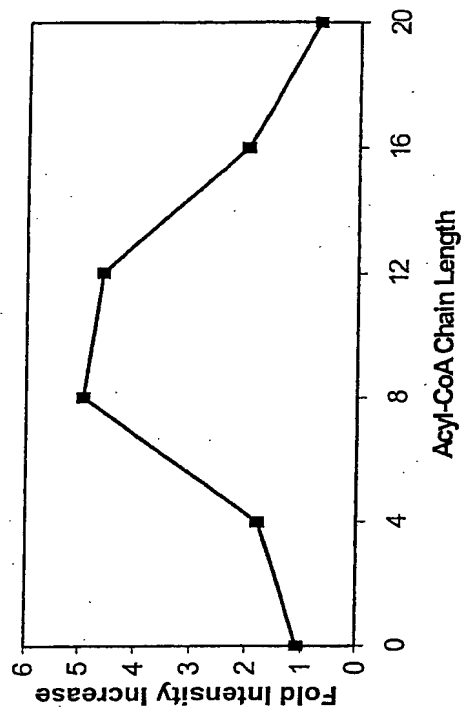
Fig. 10 B

Fig 10 C

M24C-badan response at 470 nm



A53C-badan response at 490 nm



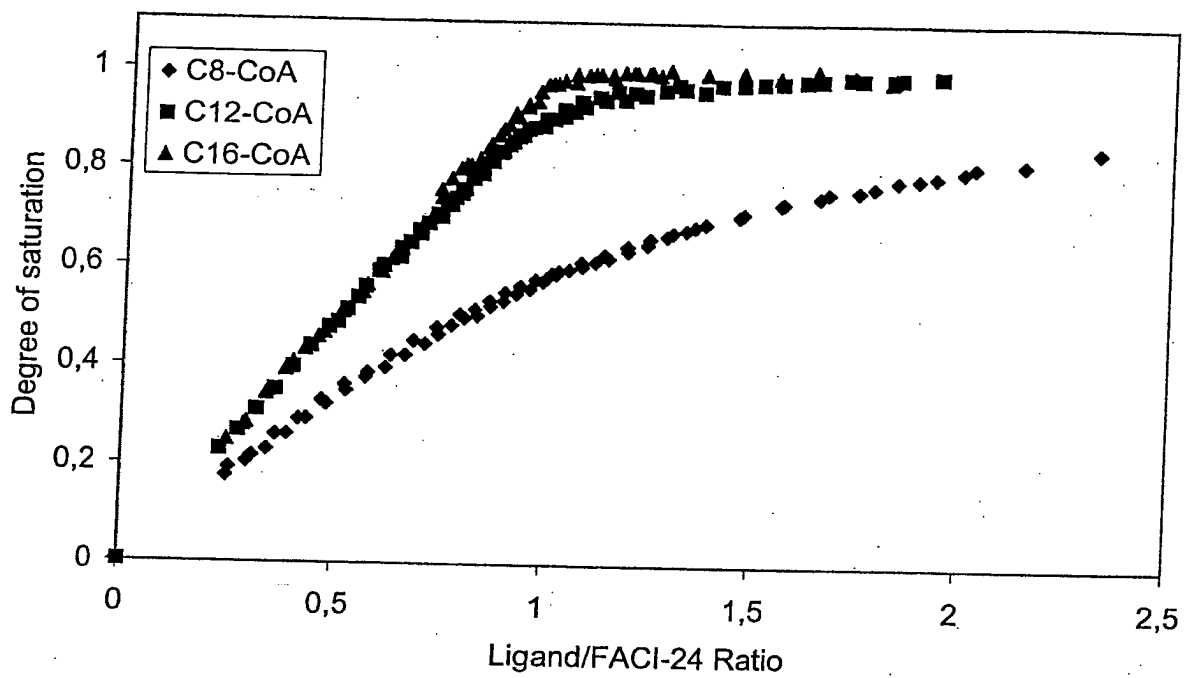


Fig. 11.

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Fold Fluorescence Increase at 460 nm

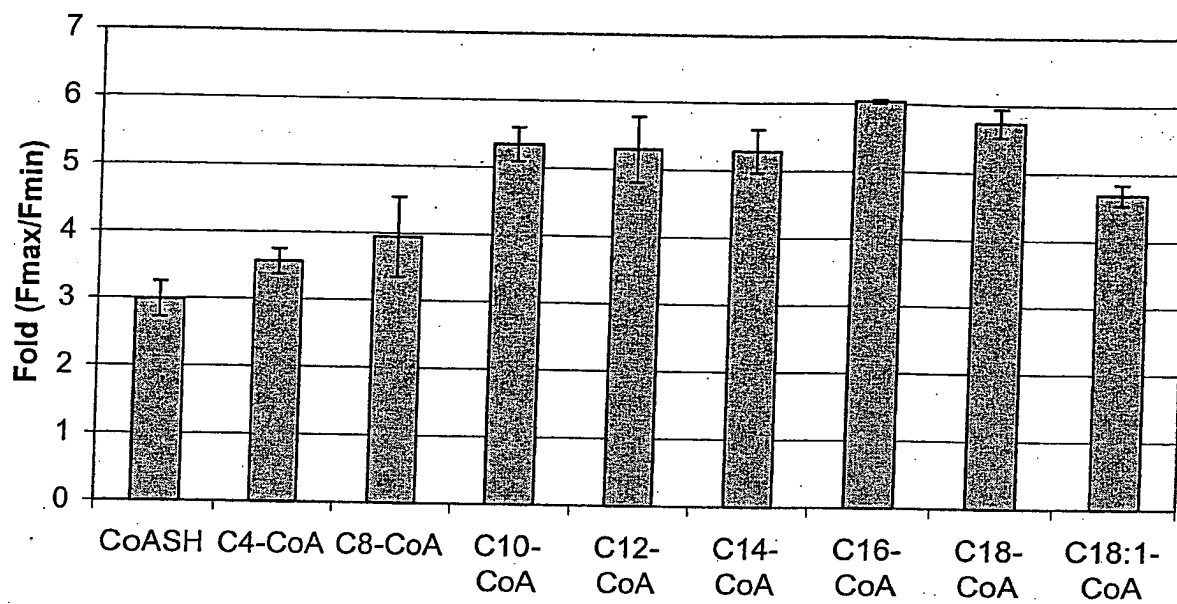


fig. 12

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09587108-020607
2099020-901-28660

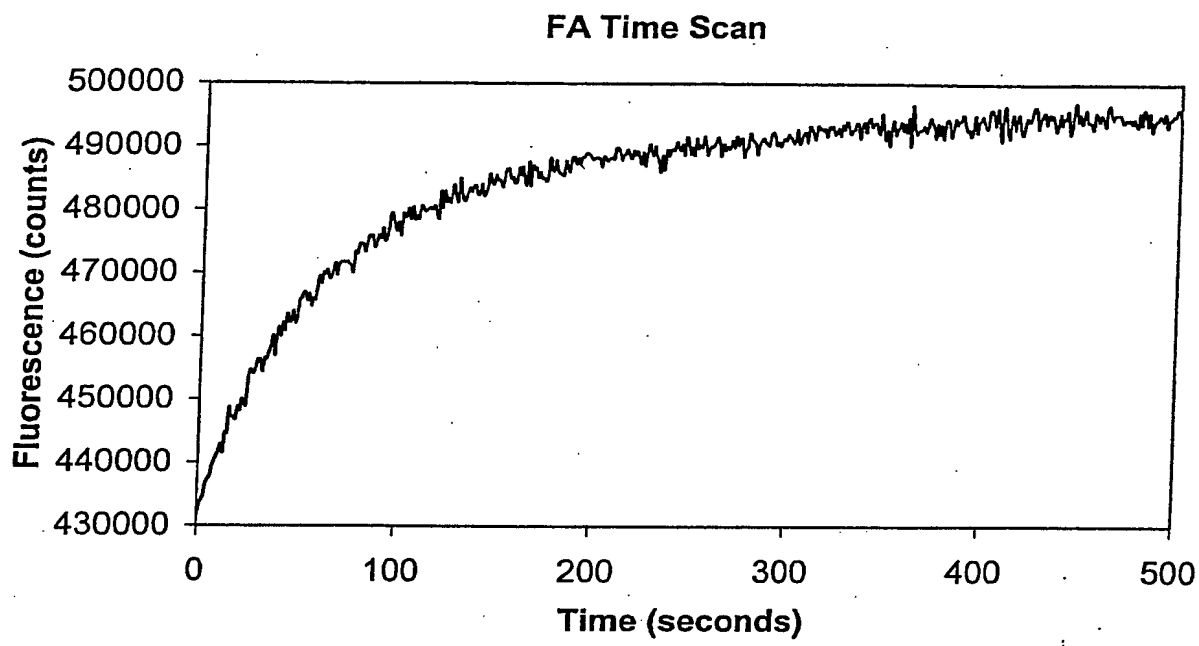


Fig. 13

2009020-907/9950

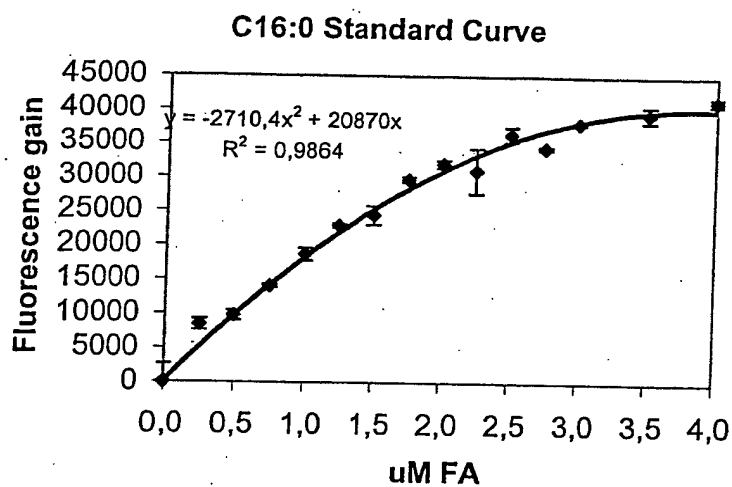


Fig. 14

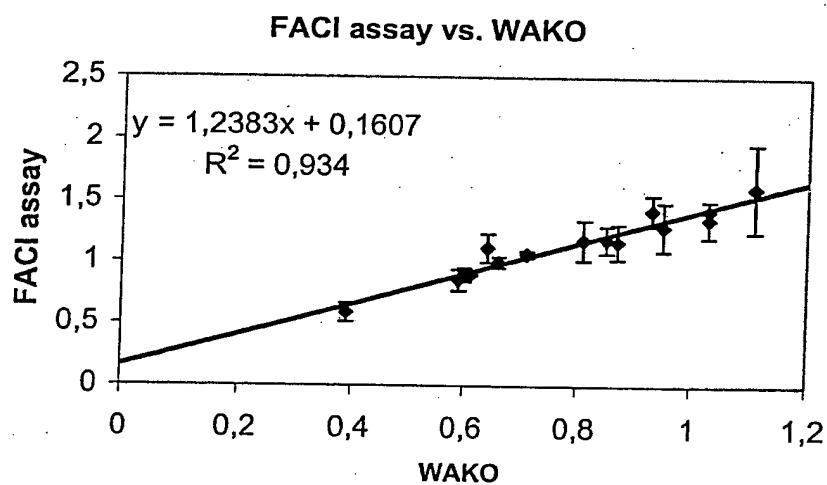


Fig. 15